

# I-405, Tukwila to Lynnwood Additional Lanes

## 10 Year-Funding in Full



### Description:

- Adds two new lanes in each direction, with truck climbing lanes
- Adds new bus rapid transit system, HOV ramps, and park and ride lots throughout corridor
- Adds new and widens existing arterials

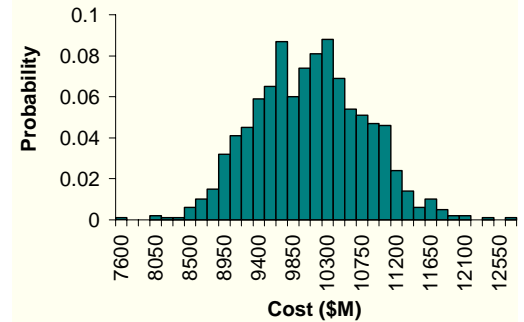
### Schedule:

Begin Construction  
Range: 2005 - 2007

End Construction  
Range: 2013 - 2016

Inflation escalation is to 2010, approximate midpoint of construction

### CEVP Result:



### Project Cost Range

There is a 10% chance the cost is less than \$ 9.1 Billion

There is a 50% chance the cost is less than \$ 10.0 Billion

There is a 90% chance the cost is less than \$ 10.9 Billion

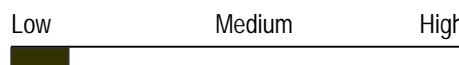
### Benefits this project would provide:

- Reduces vehicle travel by over 13 million hours per year
- Reduces congestion by 20% and accommodates additional 110,000 person trips per day in the corridor
- Decreases accidents through congestion reduction
- Improves quality and quantity of local and regional transit service, expanding current transit service by over 50%
- Adds 5,000 new park and ride spaces to the existing 9,500 spaces in the corridor
- Reduces the number of cars driven during rush hour through travel demand management strategies such as expanding the vanpool fleet by 1,700 vehicles and expanding employer commute trip reduction programs
- Improves environmental quality by reducing water pollution from stormwater and adding noise walls

### Risk issues that could impact project cost or schedule:

- Limited number of contractors are qualified and available to pursue a project this large, increasing contract costs and project delays.
- Early stage of project development increases project scope uncertainty.
- Interchange design and freeway connections are complex and difficult to construct, which could increase time and cost.
- Changes to national seismic design criteria increase structure costs.
- Legal challenges and delays in obtaining environmental permits result in project delay.
- Extended time may be needed to negotiate and relocate utilities.
- Delays may occur from cities and counties on project scope components may occur.

Level of  
Project Design:



June 3, 2002

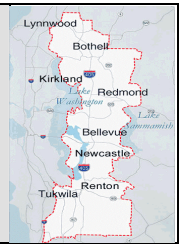


# I-405, Tukwila to Lynnwood

## Additional Lanes

### Option B – Completes SR 167 Interchange Area with Bellevue and Kirkland Improvements

## 10 Year Funding in Part



#### Description:

- Adds lanes on I-405 from SR 181 to SR 169 including rebuilding the SR 167 interchange
- Adds lanes to SR 167 from S 180<sup>th</sup> St to I-405
- Adds lanes to southbound I-405 from SE 8<sup>th</sup> to I-90
- Adds a lane northbound from Lake Wash Blvd. to I-90
- Adds a lane in each direction in the Totem Lake area

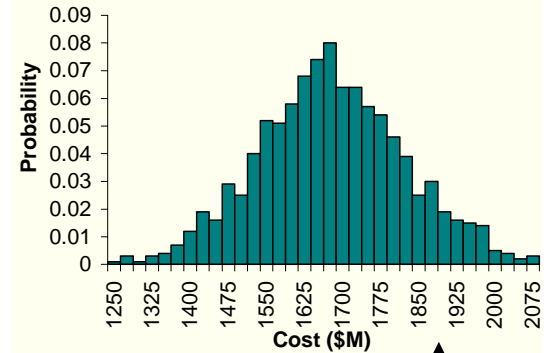
#### Schedule:

Begin Construction Range:  
2005 - 2007

End Construction Range:  
2011 - 2014

Inflation escalation is to  
2009, approximate midpoint  
of construction

#### CEVP Result:



#### Project

#### Cost Range

There is a 10% chance the cost is less than \$ 1.5 Billion

There is a 50% chance the cost is less than \$ 1.7 Billion

There is a 90% chance the cost is less than \$ 1.9 Billion

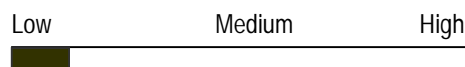
#### Benefits this project would provide:

- Addresses most congested areas first in corridor in the areas of Renton, South Bellevue, and the Totem Lake area of Kirkland
- Provides improvements that can be connected to in follow-on projects
- Develops the preliminary engineering and environmental documents from Sea-Tac to Bothell to allow faster follow-on construction when funded
- Puts in place advanced environmental mitigation to allow for follow-on construction when funded

#### Risk issues that could impact project cost or schedule:

- Limited number of contractors are qualified and available to pursue a project this large, increasing contract costs and project delays.
- Delays in right-of-way purchase result in later construction start and project cost increases.
- Early stage of project development increases project scope uncertainty.
- Interchange design and freeway connections are complex and difficult to construct, which could increase time and cost.
- Changes to national seismic design criteria increase structure costs.
- Legal challenges and delays in obtaining environmental permits results in project delay.
- Extended time may be needed to negotiate and relocate utilities.
- Delays from cities and counties on project scope components may occur.

#### Level of Project Design:



June 3, 2002



# I-405, Tukwila to Lynnwood

## Additional Lanes

### Option A – Completes Sea-Tac Airport to Bellevue with Kirkland Improvements

## 10 Year-Funding in Part



#### Description:

- Adds up to two lanes in each direction from Sea-Tac Airport to Bellevue with truck climbing lanes
- Adds lanes to SR 167 from S 180<sup>th</sup> St to I-405
- Adds a lane each direction through Kirkland
- Implements bus rapid transit with transit centers and HOV direct access ramps from Lynnwood to Burien
- Builds new arterials
- Expands the vanpool program
- Requires future phasing at additional and higher costs

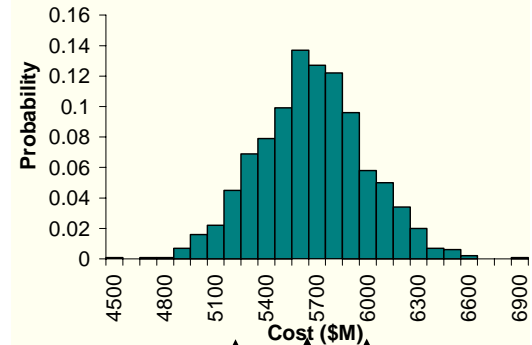
#### Schedule:

Begin Construction  
Range: 2005 - 2007

End Construction  
Range: 2013 - 2016

Inflation escalation is to 2010, approximate midpoint of construction

#### CEVP Result:



#### Project Cost Range

There is a 10% chance the cost is less than \$ 5.2 Billion

There is a 50% chance the cost is less than \$ 5.6 Billion

There is a 90% chance the cost is less than \$ 6.0 Billion

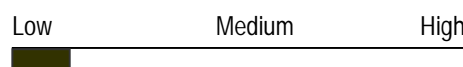
#### Benefits this project would provide:

- Addresses most congested areas first
- Builds a complete segment from Sea-Tac International Airport to the new Bellevue Access ramps
- Provides incremental one lane addition each way in Kirkland from 70<sup>th</sup> Street to 128<sup>th</sup> Street with new interchange at 132<sup>nd</sup>
- Implements Bus Rapid Transit system from Lynnwood to Burien and Kent, along with expanded express bus service
- Constructs 4000 new park & ride stalls from Burien to Canyon Park
- Implements an aggressive transportation demand management program including over 1700 new vanpools
- Adds key arterial HOV and transit priority improvements
- Constructs new arterial connections on 132<sup>nd</sup> Street in Kirkland, and Willows Road from Redmond to Woodinville and Bothell

#### Risk issues that could impact project cost or schedule:

- Limited number of contractors are qualified and available to pursue a project this large, increasing contact costs and project delays.
- Right-of-way cost escalation will occur due to real estate market variations.
- Engineering is at a preliminary level, leading to many variables in the design of complex interchanges.
- Changes to national seismic design criteria increase structure costs.
- Challenges to early-action mitigation plan dealing with floodplain / habitat mitigation.
- Additional work scope to is needed to address connecting freeways.
- Extended time is needed to negotiate and relocate utilities.
- Delays are possible from cities and counties on project scope components.
- Legal challenges may be expected to environmental documents.

#### Level of Project Design:



June 3, 2002

